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NOTICE OF ALLOWANCE AND FEE(S) DUE

26291 7590 07/17/2009

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PATTERSON & SHERIDAN L.L.P. NJ Office 3040 Oak Post Road Suite 1500 EXAMINER

MOORE JR, MICHAEL J

ART UNIT

PAPER NUMBER

2419

DATE MAILED: 07/17/2009

 APPELCATION NO.
 FIELNO DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/603,792
 06/24/2003
 Thomas A. Maufer
 NVDA P008804
 3473

TITLE OF INVENTION: PACKET PROCESSING WITH RE-INSERTION INTO NETWORK INTERFACE CIRCUITRY

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$0 | \$0 | \$1510 | 10/19/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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| Houston, TX 770 | 056-6582 | | | | | | | (Depositor's | name) |
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| MOORE JR, | MICHAEL J | | 2419 | 370-474000 | | | | | |
| "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A | ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignee is ident h in 37 CFR 3.11. Comp | nge of "Indicated. Use | Correspondence ation form e of a Customer | 2. For printing on the (I) the names of up to or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or ty data will appear on the I a substitute for filing an (B) RESIDENCE: (CIT | o 3 registered pater wely, le firm (having as agent) and the nam meys or agents. If printed. pe) | memb es of u no nan | er a 2p to be is 3lentified below, the d | ocument has been file | |
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| | s SMALL ENTITY state | ıs. See | 37 CFR 1.27. | ☐ b. Applicant is no los | | | | | |
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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| 26291 | 7590 | 07/17/2009 | | EXAMINER | | | |
| PATTERSON & SHERIDAN L.L.P. NJ Office | | | | MOORE JR, MICHAEL J | | | |
| 3040 Oak Post F | Road | | | ART UNIT | PAPER NUMBER | | |
| Suite 1500 | | | | 2419 | | | |
| Houston, TX 77 | 056-6582 | | DATE MARKED OTHTOO | 10 | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 876 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 876 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Application No. Applicant(s) 10/603 792 MAUFER ET AL. Notice of Allowability Examiner Art Unit MICHAEL J. MOORE. JR. 2419 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the Amendment with RCE filed 5/13/09. The allowed claim(s) is/are 3,5-11,13-17,23-25 and 27-30. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other .

/Michael J. Moore, Jr./ Primary Examiner, Art Unit 2419

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/13/09 has been entered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 11, on line 11, replace the word "frames" with --fragments--.

Allowable Subject Matter

- 3. Claims 3, 5-11, 13-17, 23-25, and 27-30 are allowed.
- The following is an examiner's statement of reasons for allowance:

Regarding amended claim 3, Bilic teaches the frame reassembly method via network interface adapter 20 shown in Figure 2.

Billic also teaches the reception of a detected fragment of a frame as spoken of on column 7, lines 48-51.

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Bilic also teaches the IP header checksum computation of the frame reassembled from received fragments as spoken of on column 8, lines 48-52.

Bilic also teaches the allocation of space in host memory 44 (buffer space) for received fragments of a frame as spoken of on column 8, lines 1-6.

Bilic also teaches the processor 34 setting a frame timer for the frame as spoken of on column 8, lines 8-9.

Bilic also teaches the processor (network interface circuitry) that organizes (sorting) the fragments in the host memory (buffer space) based on the fragment offset fields (fragment number) and length parameters in the fragment headers as spoken of on column 3, lines 23-25 as well as column 8, lines 31-34.

Bilic also teaches the processor (network interface circuitry) that periodically determines that one or more fragments have been lost (missing) in the event that a given frame has not been reassembled completely within a predetermined time limit as spoken of on column 3. lines 30-33 as well as column 8. lines 14-19.

Bilic as well as the other prior art of record fail to teach "determining that the first packet <u>fragment</u> is <u>valid</u> by matching <u>a first checksum</u> included in the first packet <u>fragment</u> with <u>a second checksum</u> included in a second packet <u>fragment</u> stored in the reserved buffer space" in *combination* with the other limitations of <u>amended</u> claim 3.

Regarding claims 5-10 and 28, these claims are further limiting to claim 3 and are thus also allowable over the prior art of record.

Regarding amended claim 11, this claim is allowable for the same reason as provided for claim 3 above.

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Regarding claims 13-17 and 29, these claims are further limiting to claim 11 and are thus also allowable over the prior art of record.

Regarding amended claim 23, this claim is allowable for the same reason as provided for claim 3 above.

Regarding claims 24, 25, 27, and 30, these claims are further limiting to claim 23 and are thus also allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Evans et al. (U.S. 2002/0087935) as well as Lapinski et al. (U.S. 7,000,838) are other references considered relevant to this application, but also fail to provide the teachings recited above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL J. MOORE, JR., whose telephone number is (571)272-3168. The examiner can normally be reached on Monday-Friday (7:30am - 4:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pankaj Kumar can be reached on (571) 272-3011. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael J. Moore, Jr./ Primary Examiner, Art Unit 2419